

ABSTRACT OF THE DISCLOSURE

A system for guiding a vehicle along a guiding rail, comprising a guide roller device (1), characterized in that it comprises at least one rolling bearing roller (24) and at least one lateral roller (25, 26) forming the lateral part whereby the diameter thereof and the shape of the lateral surface (51, 52) entering into contact with the rail (2) are selected in such a way that the lateral roller has the same speed at the point of contact (54) thereof with the rail (2) as the central bearing roller (24) on the rolling surface on the rail. The system can be used for tramways, for example.